## IN THE CLAIMS:

Claims 1-17 Canceled

- 18. (Currently amended) A method for preparing a laminate which exhibits photocatalytic activity capable of decomposing triolein at a rate of 5 µg/cm²/day or more when irradiating UV rays in UV-A range at a strength of 3 mW/cm² under an atmospheric temperature of 25°C and relative humidity of 70%, wherein the laminate comprises a metallic plate of a resin structure characterized in that the plate and the structure are obtained by laminating a photocatalyst-supporting film onto the surface of a metallic plate or a resin substrate by heat pressing wherein the method comprises ing the steps of:
- (a) coating a polymer resin film with a coating solution comprising an adhesive and a silane coupler as a hardener and then drying to form an adhesive layer; and
- (b) subsequently coating the adhesive layer with a coating solution comprising a photocatalyst and then drying the coating solution to prepare a photocatalyst-supporting film which carries the photocatalyst layer on the polymer resin film via the adhesive layer, and
- (c) then heat-pressing laminating the photocatalyst-supporting film onto the a surface of a metallic plate or a resin substrate by applying heating and pressing to form an integral laminate.

Claims 19-20 (Canceled)

21. (Withdrawn) A coating agent for adhering a photocatalyst for preparing a photocatalyst layer onto a polymer resin film via an adhesive layer characterized in that the coating agent is prepared by adding a silane coupler in an amount of 0.1-5% by weight relative to the weight of a coating solution for the adhesive layer as a hardening agent into the coating solution for an adhesive layer

containing 2-20% by weight of silicon denaturated resin, which contains either polysiloxane in an amount of 10-50% by weight or colloidal silica in an amount of 5-30% by weight.

22. (Withdrawn) A coating agent for adhering a photocatalyst for preparing a photocatalyst layer onto a polymer resin film via an adhesive layer characterized in that the coating agent is prepared by adding a silane coupler in an amount of 0.1-5% by weight relative to the weight of a coating solution for an adhesive layer as a hardener into the coating solution for an adhesive layer containing either monoalkyltrimethoxysilane or its hydrolyzed product, polysiloxane, in an amount of 1-10% by weight and silica sol in an amount of 0.1-5%.

## 23. (Canceled)

- 24. (Currently amended) A method for preparing the metallic plate and the resin structure laminated with a photocatalyst-supporting film according to Claim [23] 18, characterized in that the photocatalyst-supporting film is made of polymer resin film in which a photocatalyst layer is carried on the film via an adhesive layer.
- 25. (Currently amended) A method for preparing the metallic plate and the resin structure laminated with a photocatalyst-supporting film according to Claim [24]18, characterized in that the polymer resin film is a film on which 2 or more resin films are laminated.
- 26. (Currently amended) A method for preparing the metallic plate and the resin structure laminated with a photocatalyst-supporting film according to Claim [24] 18, characterized in that

the polymer resin film is made of a resin selected from the group consisting of polycarbonate resins, copolymers of at least 2 polymethylmethacrylate resins; copolymers of at least two polyacrylate resins, copolymers of polymethylmethacrylate/polyacrylate resins, poly(vinyl chloride) resins and cellophane resins.

- 27. (Currently amended ) A method for preparing the metallic plate and the resin structure laminated with a photocatalyst-supporting film according to Claim [24] 18, characterized in that the thickness of the polymer resin film is in a range of from 5 to 200  $\mu$ m.
- 28. (Currently amended) A process for preparing a laminate according to Claim [24] 18, characterized in that the adhesive layer is formed by coating a coating solution for an adhesive layer containing a silane coupler as a hardener.
- 29. (Currently amended) A method for preparing the metallic plate and the resin structure laminated with a photocatalyst-supporting film according to Claim [24] 18, characterized in that a coating solution for an adhesive layer prepared by adding a silane coupler in an amount of 0.1-5% by weight relative to the weight of the coating solution as a hardener, wherein the a coating solution comprises (1) or (2) wherein (1) is a silicon denaturated resin in an amount of 2-20% by weight which contains polysiloxane in an amount of 10-50% by weight and wherein (2) is a silicon denaturated resin in an amount of 2-20% by weight and which contains colloidal silica in an amount of 5-30% by weight is used for the coating solution for said adhesive layer.

- 30. (Currently amended) A method for preparing the metallic plate and the resin structure laminated with a photocatalyst-supporting film according to Claim [28] 18, characterized in that a coating solution prepared by adding a silane coupler as a hardener in an amount of 0.1-5% by weight relative to the weight of the coating solution into a solution containing either monoalkyltrimethoxysilanes or its hydrolyzed product in an amount of 1-10% by weight and silica sol in an amount of 0.1-5% by weight is used as the coating solution for an adhesive layer.
- 31. (Currently amended) A method for preparing the metallic plate and the resin structure laminated with a photocatalyst-supporting film according to Claim [24] 18, characterized in that the thickness of the adhesive layer is in a range of from 0.5 to 5 µm.
- 32. (Currently amended) A method for preparing the metallic plate and the resin structure laminated with a photocatalyst-supporting film according to Claim [24] 18, characterized in that the photocatalyst layer contains a metal oxide sol in an amount of 1-10% by weight as solid component and titanium dioxide in an amount of 1-10% by weight as solid component.
- 33. (Currently amended) A method for preparing the metallic plate and the resin structure laminated with a photocatalyst-supporting film according to Claim [24] 18, characterized in that the photocatalyst layer contains silica sol in an amount of 1-10% by weight, either of monoalkyltrimethoxysilane or its hydrolyzed product in an amount of 1-10% by weight and titanium dioxide in an amount of 1-10% by weight.

- 34. (Currently amended) A method for preparing the metallic plate and the resin structure laminated with a photocatalyst-supporting film according to [32]  $\underline{18}$ , characterized in that the thickness of the photocatalyst layer is in a range of from 0.1 to 5  $\mu$ m.
- 35. (Currently amended) A method for preparing the metallic plate and the resin structure laminated with a photocatalyst-supporting film according to Claim [23] 18, characterized in that the metallic plate is a metallic plate selected from the group consisting of iron plate, steel plate, aluminium plate and aluminium alloy plate.
- 36. (Currently amended) A method for preparing the metallic plate and the resin structure laminated with a photocatalyst-supporting film according to Claim [23] 18, characterized in that the metallic plate is any of resin-coated metallic plate, paint-coated metallic plate and enamelled metallic plate, which are coated in either single or multiple layers with at least one of the resins selected from the group consisting of poly(vinyl chloride) resins, polyethyleneterephthalate resins and polymethylmethacrylate resins.
- 37. (Currently amended) A method for preparing the metallic plate and the resin structure laminated with a photocatalyst-supporting film according to Claim [23] 18, characterized in that the shape of the metallic plate is selected from the group consisting of plate-form, tubular and corrugated-form.
- 38. (Currently amended) A method for preparing the metallic plate and the resin structure laminated with a photocatalyst-supporting film according to Claim [23] 18, characterized in that

the resin substrate is made of a resin selected from the group consisting of poly(vinyl chloride) resins, polyethyleneterephthalate resins, polymethylmethacrylate resins, polycarbonate resins, polyethylene resins, polypropylene resins, shock-resistant denaturated polystylene resins, and acryl-butadiene-stylene copolymers.

- 39. (Currently amended) A method for preparing the metallic plate and the resin structure laminated with a photocatalyst-supporting film according to Claim [23] 18, characterized in that the shape of the resin substrate is plate-form, sheet-like, woven fabric-like, nonwoven fabric-like, resin-containing reinforced fabric-like or tubular.
- 40. (New) A method for preparing a laminate according to claim 18, wherein the heatpressing is carried oiut at a temperature ranging from 60 to 200°C.